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Sheet 1 of 10
Serial No. 09/003,869
Docket #: 030639.0043.CPA1
Inventor: Beeley et al.
Atty: Lisa M. McGeehan
Atty. Telephone No.: 858.720.2500

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**Effect of Exendin-4 and GLP-1 on Food Intake
in NIH/3V Mice
Mean \pm S.E.**

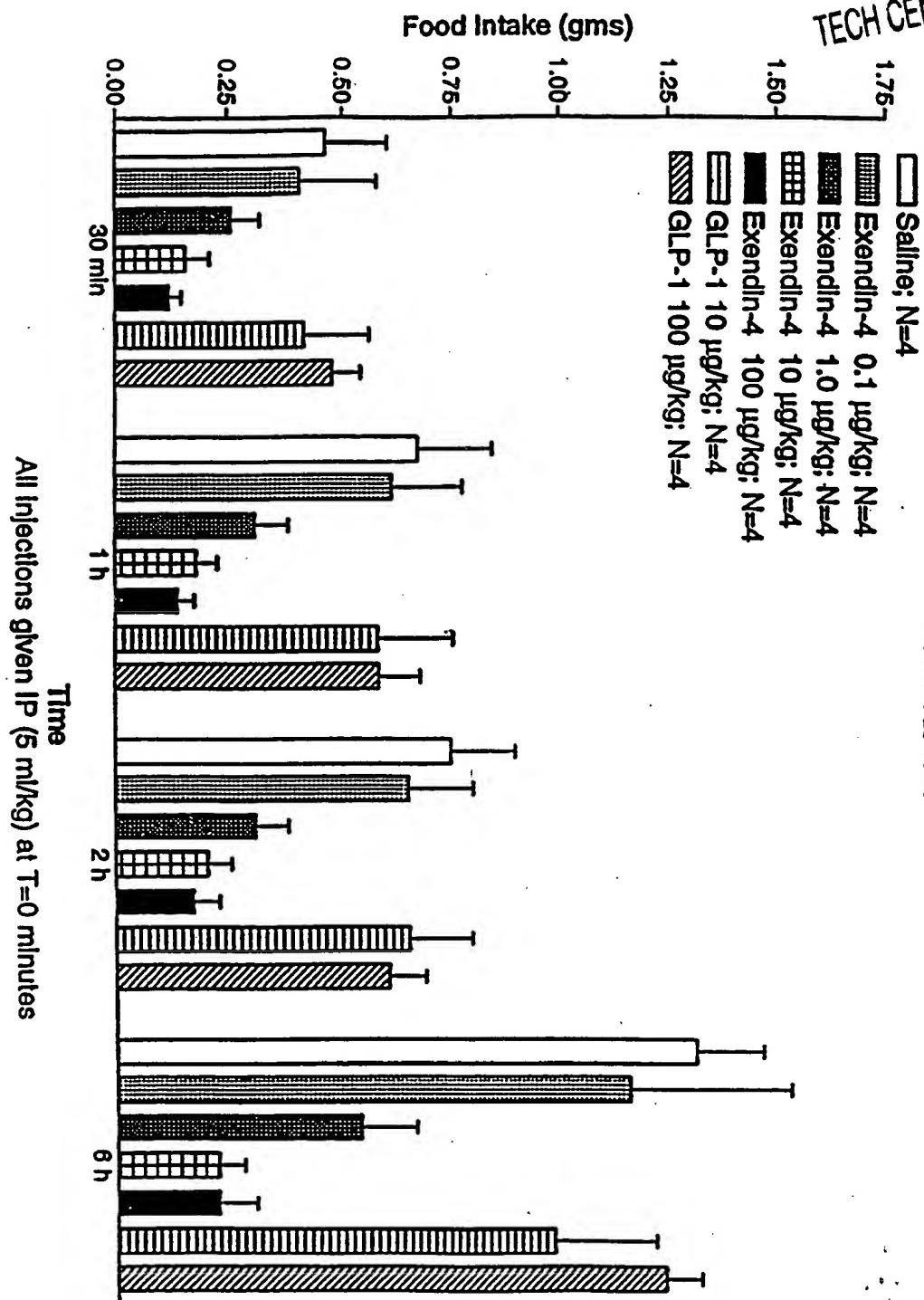


FIGURE 1



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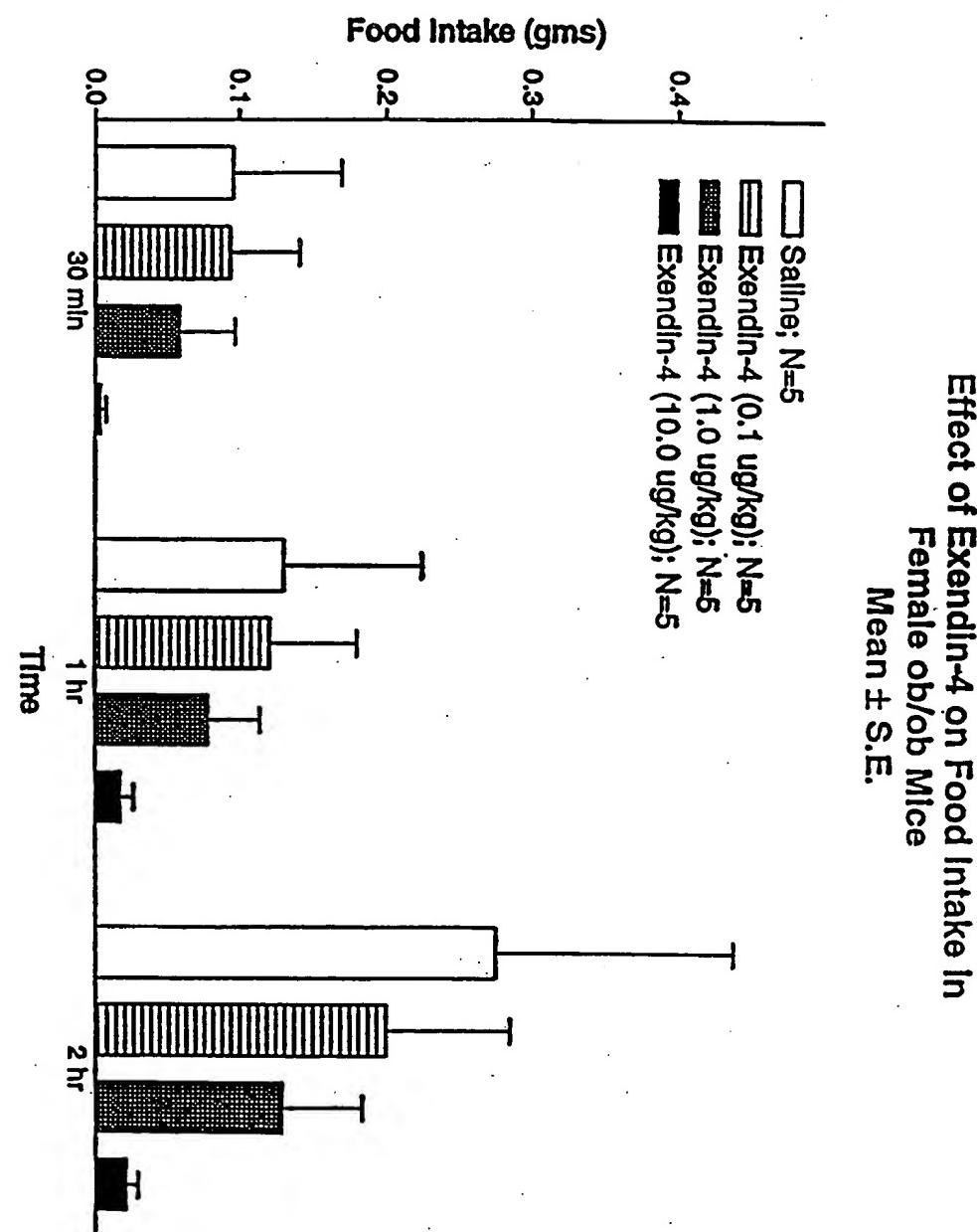


FIGURE 2

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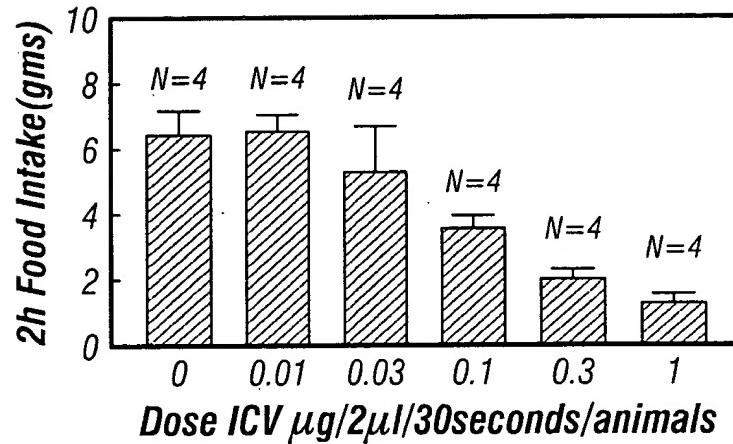


FIG. 3A

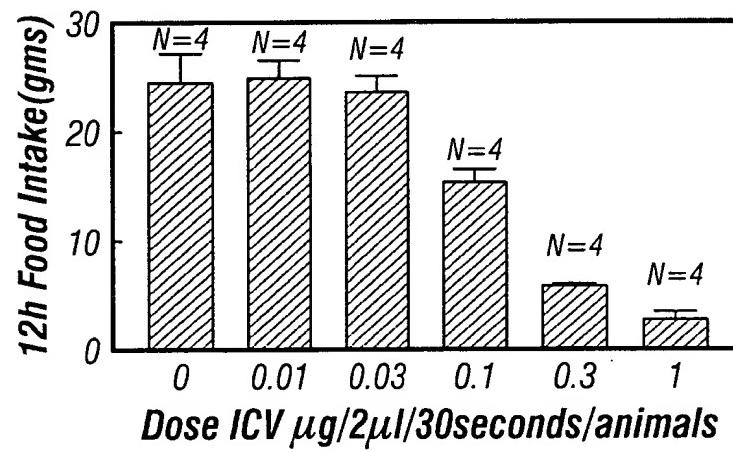


FIG. 3B

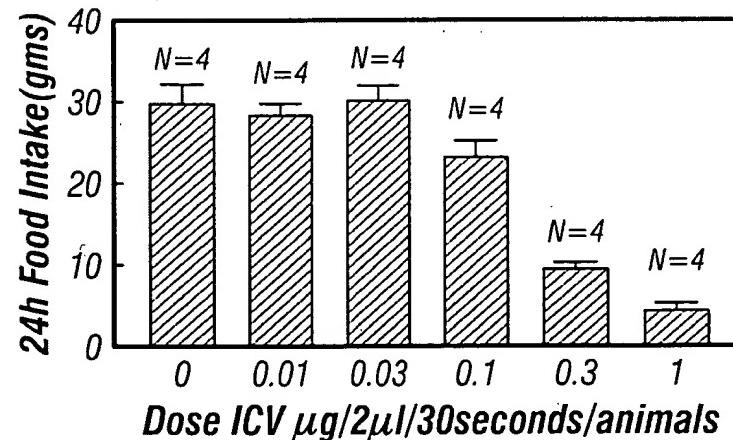
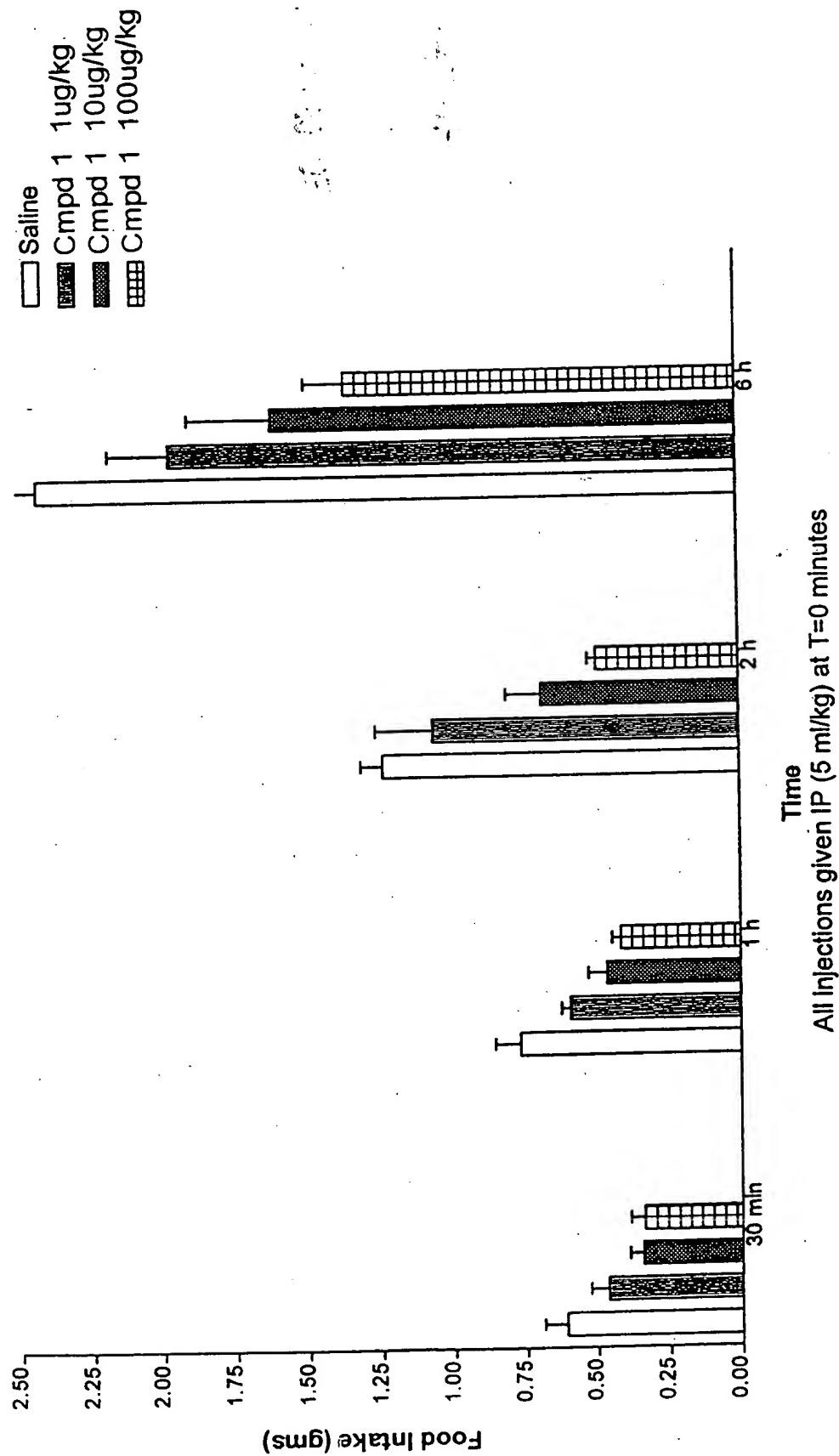


FIG. 3C

**Effect of Compound 1 on Food Intake
in NIH/SW Mice**
Mean \pm S.E.



All Injections given IP (5 ml/kg) at T=0 minutes

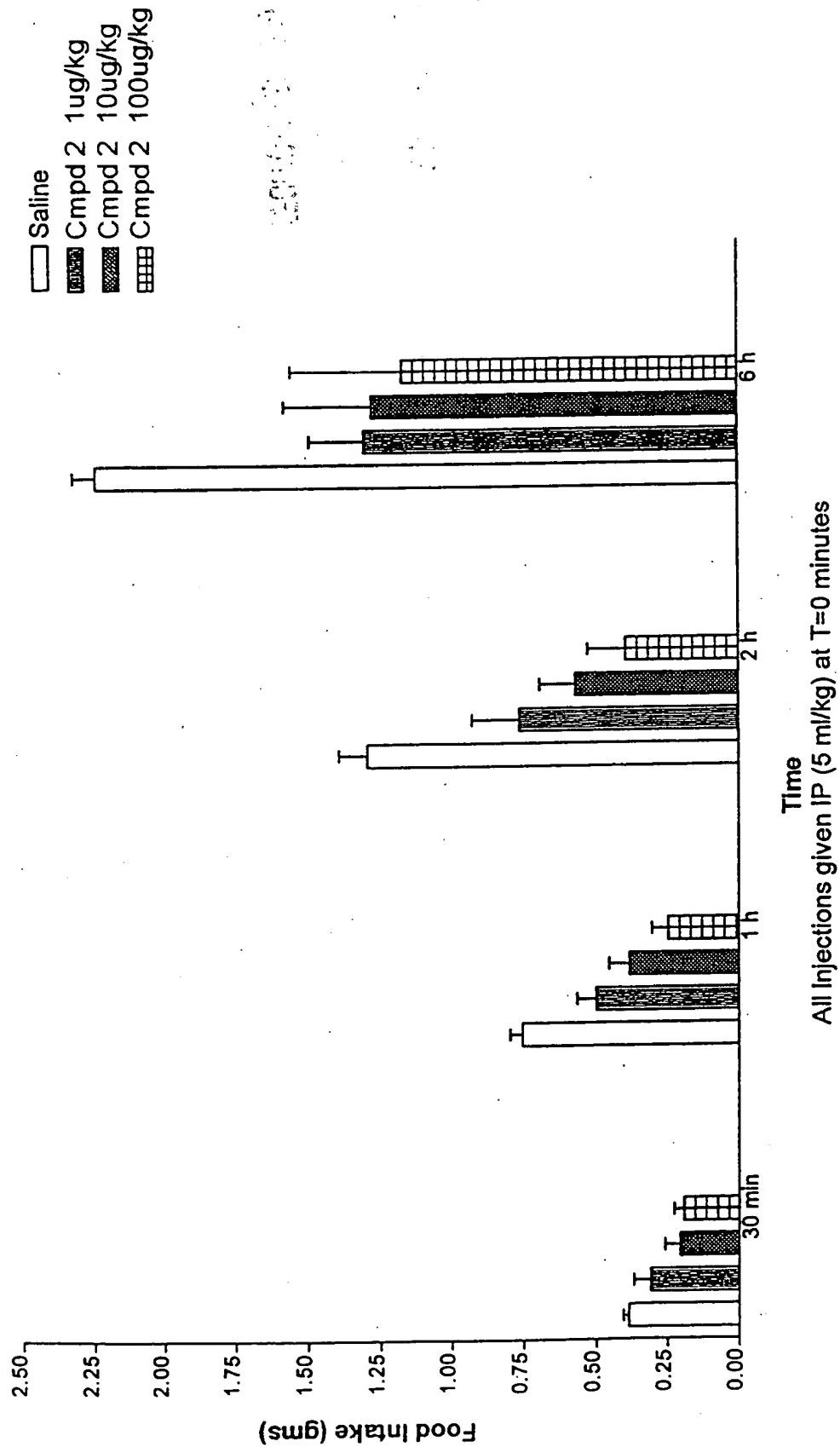
FIGURE 4

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FIGURE 5

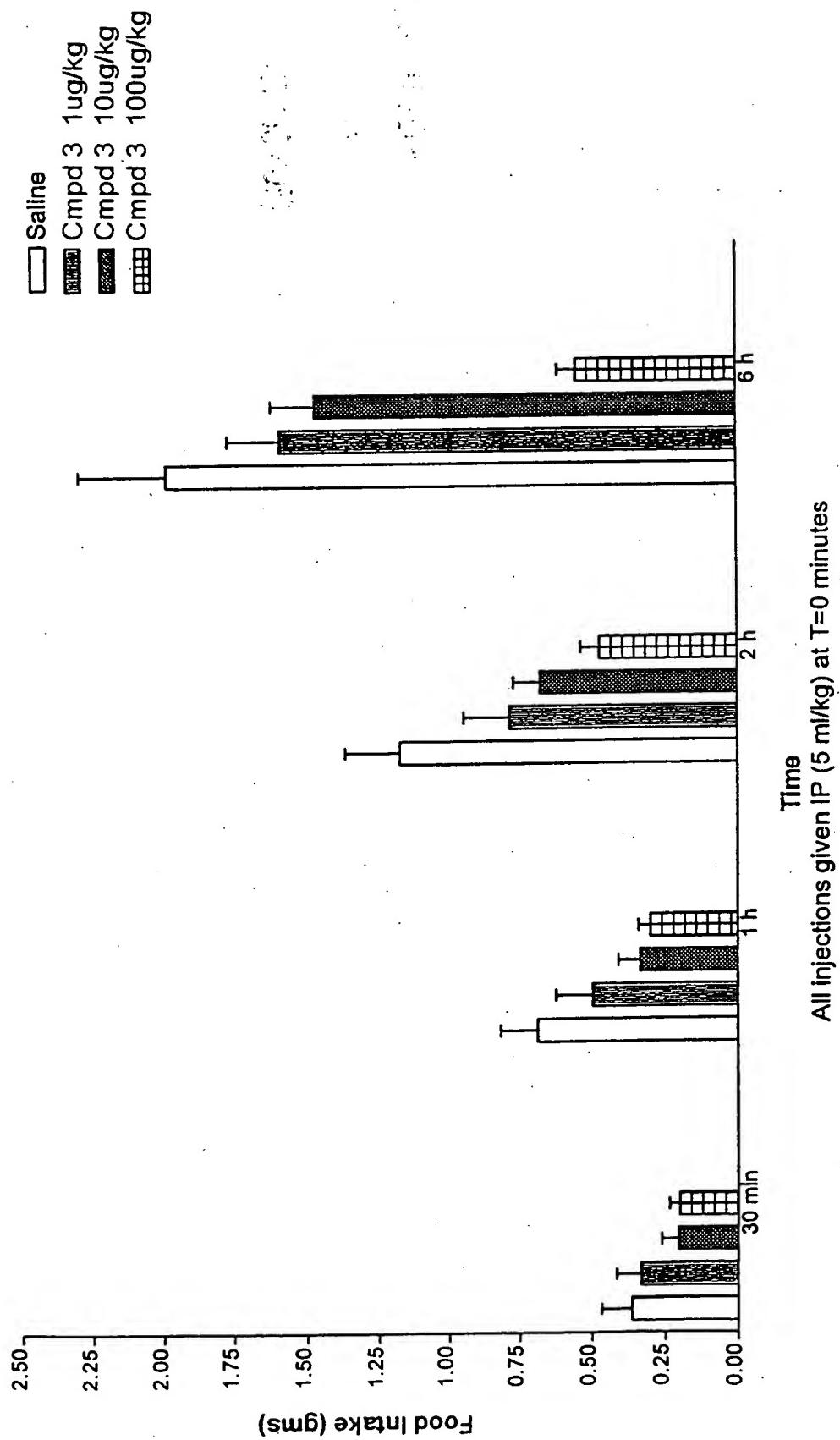
**Effect of Compound 2 on Food Intake
in NIH/3T3 Mice**
Mean \pm S.E.



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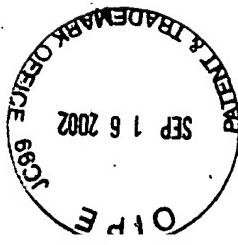
**Effect of Compound 3 on Food Intake
in NIH/SW Mice**
Mean \pm S.E.



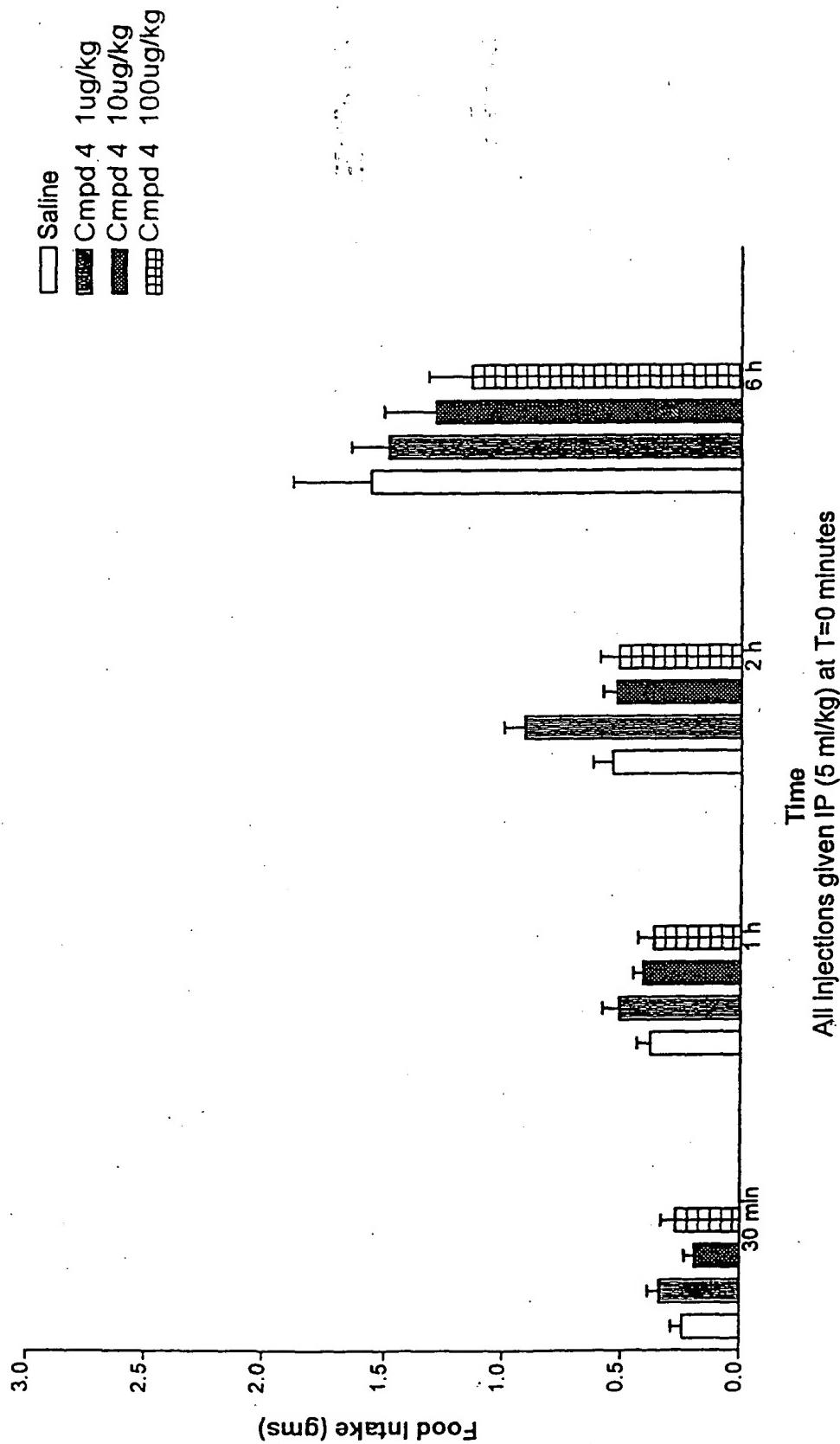
All injections given IP (5 ml/kg) at T=0 minutes

FIGURE 6

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**Effect of Compound 4 on Food Intake
in NIH/3T3 Mice**
Mean \pm S.E.



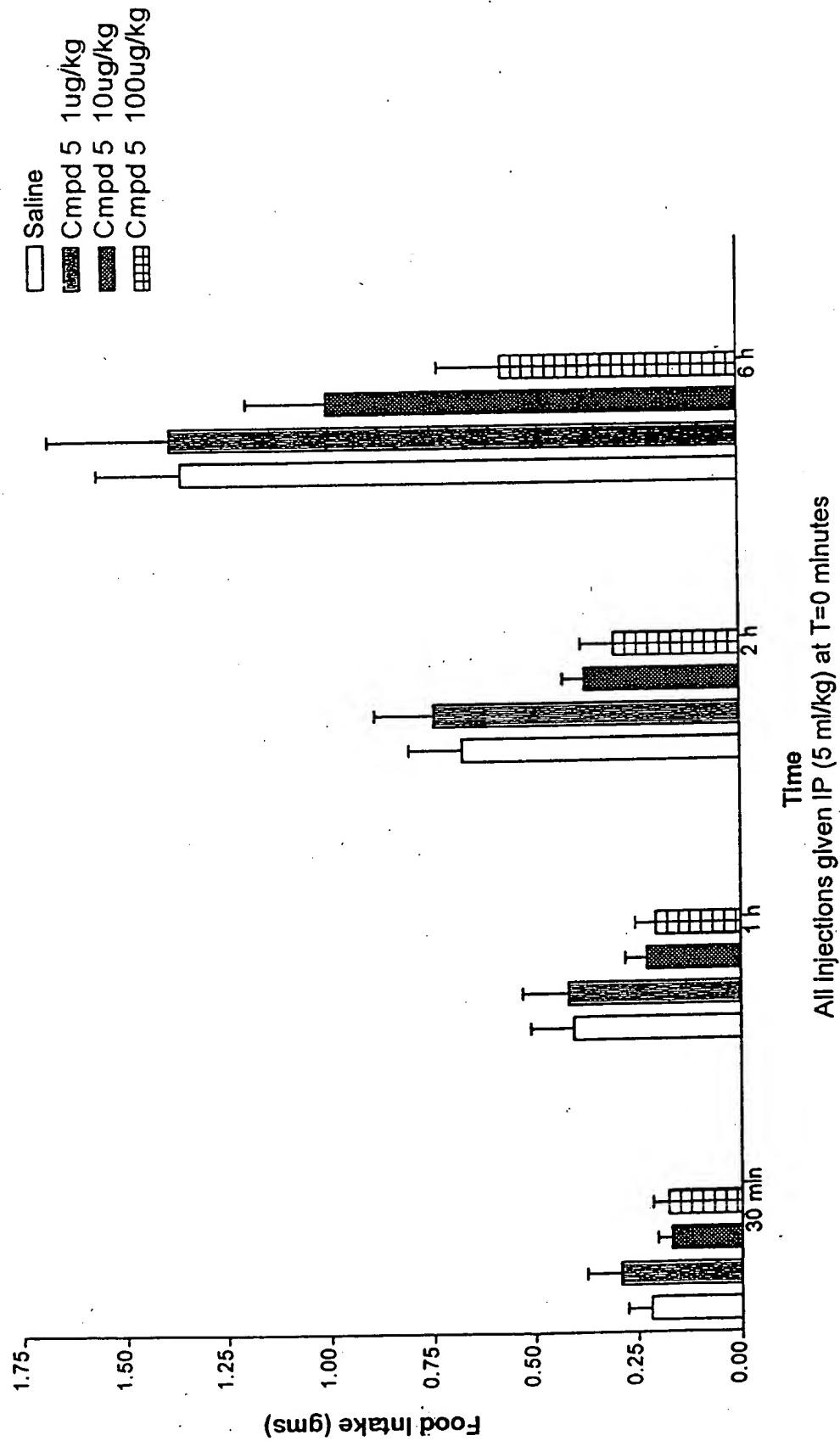
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 Inventor: Beelley et al.
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FIGURE 7

FIGURE 8

**Effect of Compound 5 on Food Intake
in NIH/3T3 Mice**
Mean \pm S.E.

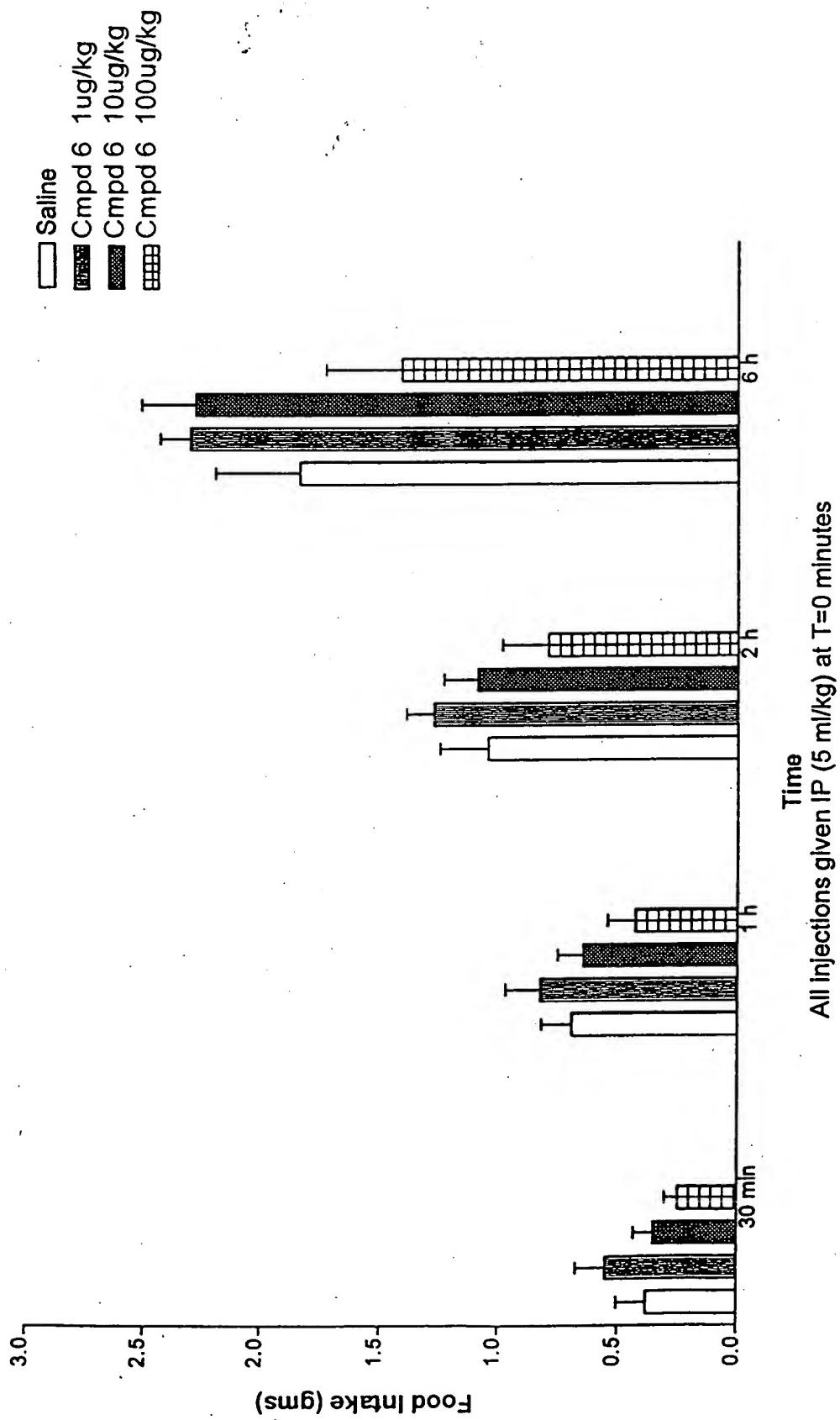


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FIGURE 9

Effect of Compound 6 on Food Intake
in NIH/3T3 Cells
Mean \pm S.E.



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| SEQ. ID. NO. | Xaa ₁ | Xaa ₂ | Xaa ₃ | Xaa ₄ | Xaa ₅ | Xaa ₆ | Xaa ₇ | Xaa ₈ | Xaa ₉ | Xaa ₁₀ | Xaa ₁₁ | Xaa ₁₂ | Xaa ₁₃ | Xaa ₁₄ | Xaa ₁₅ | Xaa ₁₆ | Xaa ₁₇ | Xaa ₁₈ | Z |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| 9 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 10 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 11 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 12 | Tyr | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 13 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 14 | His | Gly | Asp | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 15 | His | Gly | Glu | naph | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 16 | His | Gly | Glu | Phe | Ser | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 17 | His | Gly | Glu | Phe | Ser | Thr | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 18 | His | Gly | Glu | Phe | Thr | Thr | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 19 | His | Gly | Glu | Phe | Thr | Ser | Glu | Ile | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 20 | His | Gly | Glu | Phe | Thr | Ser | Asp | pGly | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 21 | His | Gly | Glu | Phe | Thr | Ser | Asp | pGly | Leu | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 22 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | pGly | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 23 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | pGly | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 24 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | naph | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 25 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Val | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 26 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Val | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 27 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | tBuG | Glu | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 28 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | tBuG | Glu | Phe | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 29 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Asp | Trp | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 30 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Pro | NH ₂ |
| 31 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | tPro | tPro | Pro | NH ₂ |
| 32 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | tPro | tPro | tPro | tPro | Pro | NH ₂ |
| 33 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | hPro | hPro | hPro | hPro | NH ₂ |
| 34 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | hPro | hPro | hPro | hPro | hPro | NH ₂ |
| 35 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Ile | Glu | Phe | Pro | tPro | tPro | tPro | tPro | NH ₂ |
| 36 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Ile | Glu | Phe | hPro | hPro | hPro | hPro | hPro | NH ₂ |
| 37 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trip | MeAla | MeAla | MeAla | MeAla | MeAla | NH ₂ |
| 38 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trip | Pro | MeAla | MeAla | MeAla | MeAla | Ser |
| 39 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Ile | Glu | Phe | MeAla | MeAla | MeAla | MeAla | MeAla | NH ₂ |

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FIG. 10

